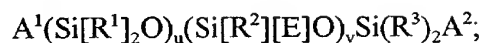


CLAIMS

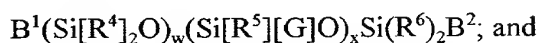
What is claimed is:

1. A composition comprising:

1) a compound of the formula:



2) a compound of the formula:

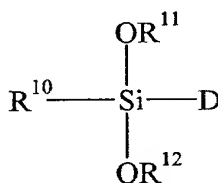


3) a crosslinker selected from the group consisting of:

a) compounds of the formula:



b) compounds of the formula:



wherein

R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , R^8 , and R^9 are independently selected from the group consisting of alkyl groups of from 1 to 4 carbon atoms;

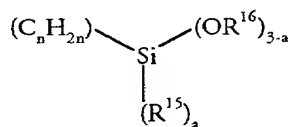
E is a monovalent organic group comprising at least one epoxy group;

A^1 and A^2 are independently selected from the group consisting of alkyl groups of from 1 to 4 carbon atoms and monovalent organic groups comprising at least one epoxy group;

u is an integer from 1 to about 2000;

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- 21 v is an integer from 0 to about 200;
- 22 the sum of u and v is from 1 to about 2200;
- 23 G is selected from the group consisting of hydroxy and alkoxy;
- 24 B¹ and B² are independently selected from the group consisting of alkyl groups of from
- 25 1 to 4 carbon atoms, hydroxy, and alkoxy;
- 26 w is an integer from 1 to about 1000;
- 27 x is an integer from 0 to about 50;
- 28 the sum of w and x is from 1 to about 1050;
- 29 Z¹ and Z² are independently selected from the group consisting of hydrogen and alkyl
- 30 groups of from 1 to 4 carbon atoms;
- 31 y is from 1 to about 1000;
- 32 z is from 0 to about 2000;
- 33 the sum of y and z is from 1 to about 3000;
- 34 D is selected from the group consisting of hydrogen, substituted or unsubstituted C₁-
- 35 C₁₂ hydrocarbon moieties, OR¹⁴, and moieties of the formula:



- 39 R¹⁰ and R¹⁵ are independently selected from the group consisting of hydrogen,
- 40 substituted or unsubstituted C₁-C₁₂ hydrocarbon moieties, and OR¹³;
- 41 R¹¹, R¹², R¹³, R¹⁴, and R¹⁶ are independently selected from the group consisting of C₁-
- 42 C₆ hydrocarbon moieties;

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43 n is 1, 2, or 3; and

44 a is 0, 1, or 2.

1 2. The composition of claim 1 in the form of an aqueous emulsion.

1 3. The composition of claim 2 further comprising a catalyst.

1 4. The composition of claim 2 further comprising at least one surface active agent.

1 5. The composition of claim 3 wherein the catalyst is selected from the group consisting
2 of metal salts of acids, zinc chloride, magnesium chloride, aluminum chloride, metal soaps,
3 non-polymeric anhydrides, and butyl acid phosphate.

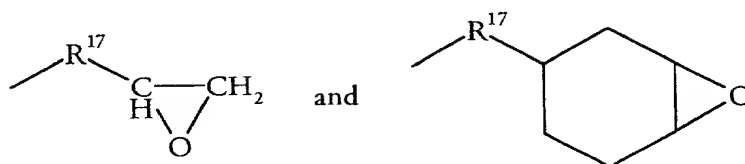
1 6. The composition of claim 4 wherein the surface active agent is selected from the group
2 consisting of non-ionic surface active agents, anionic surface active agents, and cationic
3 surface active agents.

1 7. The composition of claim 1 wherein R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , R^8 , and R^9 are all the
2 same.

1 8. The composition of claim 7 wherein R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , R^8 , and R^9 are all
2 methyl.

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9. The composition of claim 1 wherein E is selected from the group consisting of moieties of the structural formulae:



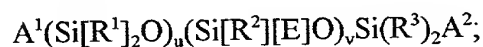
wherein R^{17} is a divalent substituted or unsubstituted organic group.

10. The composition of claim 1 wherein 3)b) is selected from the group consisting of methyltrimethoxysilane, methyltriethoxysilane, ethyltriethoxysilane, methylpentamethoxydisilylethane, tetraethoxysilane, cyclohexyltriethoxysilane and methyltripropoxysilane.

11. A process of treating textiles comprising the steps of:

A) providing an aqueous emulsion comprising a composition comprising:

1) a compound of the formula:



2) a compound of the formula:



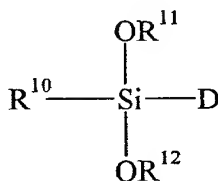
3) a crosslinker selected from the group consisting of:

a) compounds of the formula:



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b) compounds of the formula:



wherein

$\text{R}^1, \text{R}^2, \text{R}^3, \text{R}^4, \text{R}^5, \text{R}^6, \text{R}^7, \text{R}^8,$ and R^9 are independently selected from the group consisting of alkyl groups of from 1 to 4 carbon atoms;

E is a monovalent organic group comprising at least one epoxy group;

A^1 and A^2 are independently selected from the group consisting of alkyl groups of from 1 to 4 carbon atoms and monovalent organic groups comprising at least one epoxy group;

u is an integer from 1 to about 2000;

v is an integer from 0 to about 200;

the sum of u and v is from 1 to about 2200;

G is selected from the group consisting of hydroxy and alkoxy;

B^1 and B^2 are independently selected from the group consisting of alkyl groups of from 1 to 4 carbon atoms, hydroxy, and alkoxy;

w is an integer from 1 to about 1000;

x is an integer from 0 to about 50;

the sum of w and x is from 1 to about 1050;

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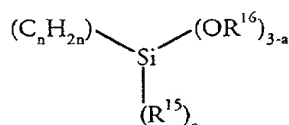
Z^1 and Z^2 are independently selected from the group consisting of hydrogen and alkyl groups of from 1 to 4 carbon atoms;

y is from 1 to about 1000;

z is from 0 to about 2000;

the sum of y and z is from 1 to about 3000;

D is selected from the group consisting of hydrogen, substituted or unsubstituted C_1 - C_{12} hydrocarbon moieties, OR^{14} , and moieties of the formula:



R^{10} and R^{15} are independently selected from the group consisting of hydrogen, substituted or unsubstituted C_1 - C_{12} hydrocarbon moieties, and OR^{13} ;

R^{11} , R^{12} , R^{13} , R^{14} , and R^{16} are independently selected from the group consisting of C_1 - C_6 hydrocarbon moieties;

n is 1, 2, or 3; and

a is 0, 1, or 2.

B) providing a catalyst suitable to the aqueous emulsion that will promote a condensation reaction between compounds 1), 2), and 3);

C) mixing the aqueous emulsion and the catalyst to form a mixture;

D) applying the mixture to the textile; and

E) heat treating the textile to form a condensation reaction product of compounds of 1), 2), and 3);

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53 whereby the textile has enhanced durability, water repellency, and softness.

1 12. The process of claims 11 further comprising the step of removing an excess of the
2 aqueous emulsion from the textile.

1 13. The process of claim 11 wherein the aqueous emulsion further comprises at least one
2 surface active agent.

1 14. The process of claim 11 wherein the catalyst is selected from the group consisting of
2 metal salts of acids, zinc chloride, magnesium chloride, aluminum chloride, metal soaps, non-
3 polymeric anhydrides, and butyl acid phosphate.

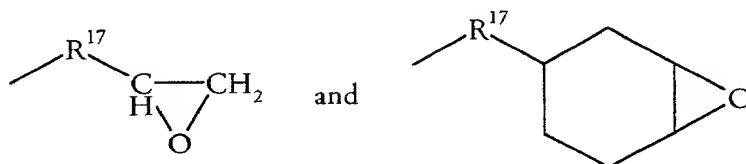
1 15. The process of claim 13 wherein the surface active agent is selected from the group
2 consisting of non-ionic surface active agents, anionic surface active agents, and cationic
3 surface active agents.

1 16. The process of claim 11 wherein R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , R^8 , and R^9 are all the same.

1 17. The process of claim 16 wherein R^1 , R^2 , R^3 , R^4 , R^5 , R^6 , R^7 , R^8 , and R^9 are all methyl.

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18. The process of claim 11 wherein E is selected from the group consisting of moieties of the structural formulae:



wherein R¹⁷ is a divalent substituted or unsubstituted organic group.

19. The process of claim 11 wherein 3)b) is selected from the group consisting of methyltrimethoxysilane, methyltriethoxysilane, ethyltriethoxysilane, methylpentamethoxydisilylethane, tetraethoxysilane, cyclohexyltriethoxysilane and methyltripropoxysilane.